Listing of Claims

The following listing of claims replaces all previous listings or versions thereof:

- 1. (Currently amended) A method of providing transgenic fish to the ornamental fish market, comprising the steps of:
 - (a) obtaining an ornamental a transgenic fish comprising one or more chimeric fluorescence genes positioned under the control of a promoter, wherein the transgenic fish expresses one or more fluorescent proteins encoded by the one or more fluorescence genes at a level sufficient such that said fish fluoresces upon exposure to one or more of a blue light, ultraviolet light or sunlight; and
 - (b) distributing said fish to the ornamental fish market.
- 2. (Original) The method of claim 1, further comprising displaying said transgenic fish under a blue or ultraviolet light.
- 3. (Original) The method of claim 2, wherein the transgenic fish are displayed under an ultraviolet light that emits light at a wavelength selected to be optimal for the fluorescent protein or proteins.
- 4. (Original) The method of claim 3, wherein the transgenic fish comprise a GFP and are displayed under an ultraviolet light that emits light at 365 nm.
- 5. (Original) The method of claim 3, wherein the transgenic fish comprise a GFP and are displayed under an ultraviolet light that emits light at 395 nm.
- 6. (Original) The method of claim 3, wherein the transgenic fish comprise a GFP and are displayed under a blue light that emits light at 488 nm.

- 7. (Original) The method of claim 1, wherein the transgenic fish express a GFP.
- 8. (Previously presented) The method of claim 7, wherein the transgenic fish express an EGFP.
- 9. (Original) The method of claim 1, wherein the transgenic fish express a BFP.
- 10. (Original) The method of claim 9, wherein the transgenic fish express an EBFP.
- 11. (Original) The method of claim 1, wherein the transgenic fish express a YFP.
- 12. (Original) The method of claim 11, wherein the transgenic fish express an EYFP.
- 13. (Original) The method of claim 1, wherein the transgenic fish express a CFP
- 14. (Original) The method of claim 13, wherein the transgenic fish express an ECFP.
- 15. (Original) The method of claim 1, wherein the transgenic fish expresses more than one color of fluorescent protein.
- 16. (Original) The method of claim 1, wherein the promoter is a tissue specific promoter.
- 17. (Withdrawn) The method of claim 16, where the promoter is a skin specific promoter.
- 18. (Withdrawn) The method of claim 17, wherein the promoter is a zebrafish cytokeratin gene promoter.
- 19. (Withdrawn) The method of claim 16, wherein the promoter is a muscle specific promoter.

- 20. (Original) The method of claim 19, wherein the promoter is a zebrafish muscle creatine kinase gene promoter.
- 21. (Original) The method of claim 19, wherein the promoter is a zebrafish myosin light chain 2 gene promoter.
- 22. (Withdrawn) The method of claim 16, wherein the promoter is an eye specific promoter.
- 23. (Withdrawn) The method of claim 16, wherein the promoter is a bone specific promoter.
- 24. (Withdrawn) The method of claim 1, wherein the promoter is a ubiquitously expressing promoter.
- 25. (Withdrawn) The method of claim 24, wherein the promoter is a zebrafish acidic ribosomal protein gene promoter.
- 26. (Withdrawn) The method of claim 1, wherein the promoter is an inducible promoter.
- 27. (Withdrawn) The method of claim 26, wherein the inducible promoter is a hormone inducible promoter.
- 28. (Withdrawn) The method of claim 26, wherein the inducible promoter is a heavy metal inducible promoter.
- 29. (Original) The method of claim 16, wherein the transgenic fish expresses more than one fluorescent protein color.
- 30. (Original) The method of claim 29, wherein the more than one fluorescent protein is expressed in the same tissue, to effect a new fluorescent color.

- 31. (Original) The method of claim 30, where the transgenic fish expresses a GFP and a BFP.
- 32. (Original) The method of claim 29, wherein the more than one fluorescent proteins are separately expressed in different tissues.
- 33. (Withdrawn) The method of claim 32, wherein the transgenic fish expresses a GFP under the control of an eye specific promoter.
- 34. (Withdrawn) The method of claim 32, wherein the transgenic fish expresses a BFP under the control of a skin specific promoter.
- 35. (Original) The method of claim 32, wherein the transgenic fish expresses a YFP under the control of a muscle specific promoter.
- 36. (Currently amended) The method of claim 1, wherein the transgenic fish is a stable transgenic fish line obtained by a method comprising the steps of:
 - (a) <u>obtained an ornamental obtaining a</u> transgenic fish comprising one or more <u>chimeric</u>-fluorescence genes positioned under the control of a promoter, wherein the transgenic fish expresses one or more fluorescent proteins encoded by the one or more fluorescence genes at a level sufficient such that said fish fluoresces upon exposure to one or more of a blue light, ultraviolet light or sunlight; and
 - (b) breeding the ornamental-transgenic fish with a second fish to obtain offspring; and
 - (c) selecting from said offspring a stable transgenic line that expresses one or more fluorescent proteins.
- 37. (Original) The method of claim 36, wherein the second fish is a wild type fish.

- 38. (Original) The method of claim 36, wherein the second fish is a second transgenic fish.
- 39. (Currently amended) The method of claim 1 or 36, wherein the ornamental-transgenic fish is a transgenic zebrafish, medaka, goldfish or carp.
- 40. (Original) The method of claim 36, wherein the second fish is a zebrafish, medaka, goldfish or carp.
- 41. (Currently amended) The method of claim 1 or 36, wherein the ornamental transgenic fish is a transgenic koi, loach, tilapia, glassfish, catfish, angel fish, discus, eel, tetra, goby, gourami, guppy, Xiphophorus, hatchet fish, Molly fish, or pangasius.
- 42. (New) The method of claim 39, wherein the transgenic fish is a transgenic zebrafish.